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(12) **EUROPEAN PATENT APPLICATION**

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(54) **Electron beam curable resin composition and composite sheet material produced therefrom**

(57) An electron beam-curable resin composition including a mono-functional, electron beam-curable organic compound capable of being converted to a homopolymer having a glass transition temperature

(T_g) of 20°C or more, and a di(meth)acrylate, is useful for producing a composite sheet material having a resin coating layer formed from the resin composition and having an excellent softness, a high resistance to cracking upon bending and a high gloss

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which under Rule 45 of the European Patent Convention shall be considered, for the purposes of subsequent proceedings, as the European search report

EP 98 30 3156

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication where appropriate of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.C1.6)
X,P	<p>DATABASE WPI Derwent Publications Ltd., London, GB; AN 97-522239 XP002070744 & JP 09 250097 A (OJI PAPER CO.), 22 September 1997 (1997-09-22) * abstract *</p>	<p>1-3, 11-13, 15,17</p>	<p>C09D4/00 C08F222/10 C08F220/36 C09D4/06 C08F290/06 D21H19/58 G03C1/79 B32B27/10</p>
X	<p>DATABASE WPI Derwent Publications Ltd., London, GB; AN 94-243310 XP002070745 & JP 06 175276 A (OJI PAPER CO), 24 June 1994 (1994-06-24) * abstract *</p>	<p>1-3, 11-13, 15,17</p>	
X	<p>DATABASE WPI Derwent Publications Ltd., London, GB; AN 94-238250 XP002070746 & JP 06 171051 A (OJI PAPER CO), 21 June 1994 (1994-06-21) * abstract *</p>	<p>1-3, 11-13, 15,17</p>	
			<p>TECHNICAL FIELDS SEARCHED (Int.C1.6)</p> <p>C09D C08F</p>
<p>INCOMPLETE SEARCH</p> <p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims.</p> <p>Claims searched completely:</p> <p>Claims searched incompletely:</p> <p>Claims not searched:</p> <p>Reason for the limitation of the search:</p> <p>see sheet C</p>			
<p>Place of search</p> <p>THE HAGUE</p>		<p>Date of completion of the search</p> <p>22 September 1999</p>	<p>Examiner</p> <p>Bettels, B</p>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document</p> <p>T: theory or principle underlying the invention E: earlier patent document, but published on or after the filing date D: document cited in the application L: document cited for other reasons & : member of the same patent family corresponding document</p>			

EP0 FORM 1503 03.92 (P442/97)



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INCOMPLETE SEARCH
SHEET C

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EP 98 30 3156

Claim(s) searched completely:
1,3

Claim(s) searched incompletely:
2, 11-18

Claim(s) not searched:
4-10

Reason for the limitation of the search (non-patentable invention(s)):

Non-unity of invention (a posteriori)

Further limitation of the search

Claim(s) searched completely:
1, 3-18

Claim(s) searched incompletely:
2

Reason for the limitation of the search:

No search was carried out for claim 2 regarding the di(meth)acrylates
defined under (11) because the definition is not clear

PARTIAL EUROPEAN SEARCH REPORT

Application Number
EP 98 30 3156

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication where appropriate of relevant passages	Relevant to claim	
X,D	DATABASE WPI Derwent Publications Ltd., London, GB; AN 88-193680 XP002070607 & JP 63 130608 A (FURUKAWA ELECTRIC CO. LTD.; YOKOHAMA RUBBER CO. LTD.), 2 June 1988 (1988-06-02) - see also complete Japanese document for di(meth)acrylate formulae * abstract *	1-3, 11-13	
X	EP 0 234 430 A (KOHJIN CO) 2 September 1987 (1987-09-02) * page 1, line 7 - line 12 * * page 3, line 18 - line 33 * * page 4, line 29 - line 43 * * page 5, line 9 - line 13 * * examples 1-3 * * claims 1,2,5,8 *	1-3, 11-13	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
X	DATABASE WPI Derwent Publications Ltd., London, GB; AN 96-379316 XP002070747 & JP 08 183824 A (TAKEMOTO OIL & FAT CO LTD.), 16 July 1996 (1996-07-16) * abstract *	1-3	
A	DATABASE WPI Derwent Publications Ltd., London, GB; AN 94-269145 XP002070748 & JP 06 198829 A (OJI PAPER CO. LTD.), 19 July 1994 (1994-07-19) * abstract *	1-3	



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet 3

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate of relevant passages	Relevant to claim	
T	<p>AZAM ALI M ET AL: "STUDY OF RADIATION-CURED THIN FILMS OF ALIPHATIC AND AROMATIC URETHANE ACRYLATE PREPOLYMERS"</p> <p>ADVANCES IN POLYMER TECHNOLOGY, vol. 17, no. 3, 21 September 1998 (1998-09-21), pages 259-267, XP000790461</p> <p>ISSN: 0730-6679</p> <p>* whole paper and references therein *</p> <p>---</p>	1-15	
X,P	<p>WO 97 19898 A (JAPAN SYNTHETIC RUBBER CO LTD ;ISHIKAWA MIYUKI (JP); UKACHI TAKASH)</p> <p>5 June 1997 (1997-06-05)</p> <p>* page 7, line 20 - line 35 *</p> <p>* page 16, line 10 - page 18, line 7 *</p> <p>* synthetic examples *</p> <p>* claims 1-6 *</p> <p>---</p>	1-6,8,10,13,15	<p>TECHNICAL FIELDS SEARCHED (Int.Cl.6)</p>
X	<p>M.A. ALI, M.A. KHAN, K.M. IDRIS ALI: "Comparative Study of Electron Beam and Ultraviolet-Cured Films of Urethane Acrylate"</p> <p>JOURNAL OF APPLIED POLYMER SCIENCE, vol. 60, no. 6, 1996, pages 879-885, XP002115806</p> <p>ISSN: 0969-806X</p> <p>* whole paper, in particular the compounds of table 1 *</p> <p>---</p> <p style="text-align: center;">-/--</p>	1-6,10,13,15	



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**LACK OF UNITY OF INVENTION
SHEET B**

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1 Claims: 1, 2 (in part), 3, 11-18 (in part)

Compositions containing acryloyl morpholine first component, the second component deriving from one of the formulae (8)-(11)

2 Claims: 4, 11-18 (in part)

Compositions containing structure represented by formula (1) as first component, the second component as defined in claim 4

3 Claims: 5, 11-18 (in part)

Compositions containing structure represented by formula (2) as first component, the second component as defined in claim 5

4 Claims: 6, 11-18 (in part)

Compositions containing structure represented by formula (3) as first component, the second component as defined in claim 6

5 Claims: 7, 11-18 (in part)

Compositions containing structure represented by formula (4) as first component, the second component as defined in claim 7

6 Claims: 8, 11-18 (in part)

Compositions containing structure represented by formula (5) as first component, the second component as defined in claim 8

7 Claims: 9, 11-18 (in part)

Compositions containing structure represented by formula (6) as first component, the second component as defined in claim 9

8 Claims: 10, 11-18 (in part)

Compositions containing structure represented by formula (7)



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LACK OF UNITY OF INVENTION
SHEET B

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

as first component, the second component as defined in claim
10



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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
Category	Citation of document with indication where appropriate of relevant passages	Relevant to claim	
X	GB 2 195 643 A (YOKOHAMA RUBBER CO LTD) 13 April 1988 (1988-04-13) * page 2, line 40 - page 3, line 10 * * page 3, line 33 - page 4, line 2 * * page 10, line 27 - page 11, line 34 * * examples 22,33 * * comparative example 15 * * claim 1 *	1,2,4, 11,13, 15,17	
X	PATENT ABSTRACTS OF JAPAN vol. 095, no. 005, 30 June 1995 (1995-06-30) & JP 07 048422 A (DENKI KAGAKU KOGYO KK), 21 February 1995 (1995-02-21) * see also Derwent WPI abstract n° 95-126184 and CAPLUS 1995:541574 * * abstract *	2,4,13	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
X	PATENT ABSTRACTS OF JAPAN vol. 096, no. 005, 31 May 1996 (1996-05-31) & JP 08 017256 A (HITACHI CABLE LTD.), 19 January 1996 (1996-01-19) * see also WPI 96-121249 and CAPLUS 1996:184153 *	2	
X	KRONGAUZ V V ET AL: "REACTIVE DILUENTS AND PROPERTIES OF ULTRAVIOLET-CURED POLYCARBONATEURETHANE ACRYLATES" JOURNAL OF APPLIED POLYMER SCIENCE, vol. 57, no. 13, 26 September 1995 (1995-09-26), pages 1627-1636, XP000542988 ISSN: 0021-8995 * whole paper, in particular under "formulations" (CHA) and table II *	1,2,5	
	-/--		

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication where appropriate of relevant passages	Relevant to claim	
X	EP 0 457 499 A (AVERY DENNISON CORP) 21 November 1991 (1991-11-21) * page 2, line 20 - line 37 * * page 3, line 37 - page 4, line 5 * * example 2 * * claims 1-8 *	1,2,5, 11,13, 15,17	
X	K. ZAMAN AND T. SASAKI: "Effects of Diluents and Irradiation Conditions on EB Curing of Urethane Acrylates" 18 April 1991 (1991-04-18), RAD. TECH INT. NORTH AMERICA, RADTECH ASIA'91 CONFERENCE PROCEEDINGS, NORTHBROOK, ILL (US) XP002116135 * whole paper, in particular formulations (table 2) *	1,2,5, 13,15	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
X	EP 0 368 659 A (HITACHI MAXELL ;HITACHI LTD (JP)) 16 May 1990 (1990-05-16) * page 21, line 44 - page 22, line 51 * * (compounds 2,3 on page 22) * * page 26, compounds 10, 11 * * claims 6,7,12,13,28,29 *	1,2,6, 13,15	
X,P	PATENT ABSTRACTS OF JAPAN vol. 098, no. 006, 30 April 1998 (1998-04-30) & JP 10 036462 A (TOAGOSEI CO. LTD.), 10 February 1998 (1998-02-10) * see also WPI 98-174964 and CAPLUS 1998:98422 * * abstract *	1,2,7, 11,13,15	
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Application Number
EP 98 30 3156

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.8)
Category	Citation of document with indication where appropriate of relevant passages	Relevant to claim	
X	WO 97 14737 A (DSM NV ; JAPAN SYNTHETIC RUBBER CO LTD (JP); KOMIYA ZEN (JP); UKACH) 24 April 1997 (1997-04-24) * page 10, line 27 - page 13, line 25 * * examples * * claims 1-10 *	1,2,4-6, 10,13,15	
Y	idem.	1-11,13, 15-18	
X	WO 95 02003 A (AVERY DENNISON CORP) 19 January 1995 (1995-01-19) * page 8, line 30 - line 34 * * claims 1,5,25 *	1,2,10, 13,15	
Y	idem.	1-11,13, 15-18	TECHNICAL FIELDS SEARCHED (Int.Cl.8)
X	DATABASE WPI Derwent Publications Ltd., London, GB; AN 89-037242 XP002116136 & JP 63 312309 A (DESOTO INC; JAPAN SYNTHETIC RUBBER CO. LTD.), 20 December 1988 (1988-12-20) * see also CAPLUS 1989:425045 * * abstract *	1-3,10	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on the European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

22-09-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 9250097 A	22-09-1997	NONE	
JP 6175276 A	24-06-1994	NONE	
JP 6171051 A	21-06-1994	JP 2730434 B	25-03-1998
JP 63130608 A	02-06-1988	JP 6037540 B	18-05-1994
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		KR 9513684 B	13-11-1995
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JP 07048422 A	21-02-1995	NONE	
JP 08017256 A	19-01-1996	NONE	
EP 0457499 A	21-11-1991	US 5149592 A	22-09-1992
		CA 2041935 A	10-11-1991
		FI 912218 A	10-11-1992
EP 0368659 A	16-05-1990	JP 2132652 A	22-05-1990
		JP 2112989 C	21-11-1996
		JP 2173947 A	05-07-1990
		JP 8027986 B	21-03-1996
		DE 68927766 D	27-03-1997
		DE 68927766 T	26-06-1997
		JP 2223034 A	05-09-1990

EPO FORM P449

For more details about this annex : see Official Journal of the European Patent Office No. 12/82

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 30 3156

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The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

22-09-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0368659 A		JP 2516263 B	24-07-1996
		US 5427893 A	27-06-1995
		US 5234792 A	10-08-1993
JP 10036462 A	10-02-1998	NONE	
WO 9714737 A	24-04-1997	JP 9110947 A	28-04-1997
		AU 7229096 A	07-05-1997
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JP 63312309 A	20-12-1988	JP 2522663 B	07-08-1996

EPO FORM P-489

For more details about this annex : see Official Journal of the European Patent Office No 12/82

PCT-ANTRAG

Original (für EINREICHUNG)

0	Vom Anmeldeamt auszufüllen	
0-1	Internationales Aktenzeichen	PCT/EP 2004 / 007 698
0-2	Internationales Anmeldedatum	(13. 07. 2004) 13 JUL 2004
0-3	Name des Anmeldeamts und "PCT International Application"	EUROPEAN PATENT OFFICE PCT INTERNATIONAL APPLICATION
0-4	Formular - PCT/RO/101 PCT-Antrag	
0-4-1	erstellt durch Benutzung von	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.162)
0-5	Antragsersuchen Der Unterzeichnete beantragt, daß die vorliegende internationale Anmeldung nach dem Vertrag über die internationale Zusammenarbeit auf dem Gebiet des Patentwesens behandelt wird	
0-6	(Vom Anmelder gewähltes) Anmeldeamt	Europäisches Patentamt (EPA) (RO/EP)
0-7	Aktenzeichen des Anmelders oder Anwalts	PAT 01148PCT
I	Bezeichnung der Erfindung	VERFAHREN ZUR HERSTELLUNG VON KUNSTSTOFFFORMTEILEN MIT FUNKTIONALEN OBERFLÄCHEN
II	Anmelder	
II-1	Diese Person ist	nur Anmelder
II-2	Anmelder für	Alle Bestimmungsstaaten mit Ausnahme von US
II-4	Name	BASF COATINGS AG
II-5	Anschrift	Glasuritstr. 1 48165 Münster Deutschland
II-6	Staatsangehörigkeit (Staat)	DE
II-7	Sitz/Wohnsitz (Staat)	DE
III-1	Anmelder und/oder Erfinder	
III-1-1	Diese Person ist	Anmelder und Erfinder
III-1-2	Anmelder für	Nur US
III-1-4	Name (FAMILIENNAME, Vorname)	HINTZE-BRÜNING, Horst
III-1-5	Anschrift	Thomas-Mann-Weg 9 48165 Münster Deutschland
III-1-6	Staatsangehörigkeit (Staat)	DE
III-1-7	Sitz/Wohnsitz (Staat)	DE

PAT01148 PCT

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Original (für EINREICHUNG)


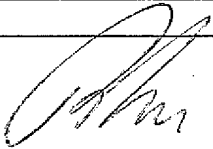
III-2	Anmelder und/oder Erfinder	
III-2-1	Diese Person ist	Anmelder und Erfinder
III-2-2	Anmelder für	Nur US
III-2-4	Name (FAMILIENNAME, Vorname)	SAEDLER, Markus
III-2-5	Anschrift	Am Getterbach 53 R 48163 Münster Deutschland
III-2-6	Staatsangehörigkeit (Staat)	DE
III-2-7	Sitz/Wohnsitz (Staat)	DE
III-3	Anmelder und/oder Erfinder	
III-3-1	Diese Person ist	Anmelder und Erfinder
III-3-2	Anmelder für	Nur US
III-3-4	Name (FAMILIENNAME, Vorname)	RAKA, Fatmir
III-3-5	Anschrift	Frauenstraße 34 48143 Münster Deutschland
III-3-6	Staatsangehörigkeit (Staat)	DE
III-3-7	Sitz/Wohnsitz (Staat)	DE
IV-1	Anwalt oder gemeinsamer Vertreter; oder besondere Zustellanschrift Die unten bezeichnete Person ist/wird hiermit bestellt, um den (die) Anmelder vor den internationalen Behörden zu vertreten, und zwar als:	Anwalt
IV-1-1	Name (FAMILIENNAME, Vorname)	FITZNER, Uwe
IV-1-2	Anschrift	Lintorfer Str. 10 40878 Ratingen Deutschland
IV-1-3	Telefonnr.	02102/42370
IV-1-4	Telefaxnr.	02102/46851
IV-1-5	E-Mail	dres.fitzner@t-online.de
V	BESTIMMUNGEN	
V-1	Die Einreichung dieses Antrags umfaßt gemäß Regel 4.9 Absatz a die Bestimmung aller Vertragsstaaten, für die der PCT am internationalen Anmeldedatum verbindlich ist, und, insoweit verfügbar, für jede Art von Schutzrecht und sowohl für ein regionales als auch für ein nationales Patent.	

PAT 01148PCT

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PCT-ANTRAG

Original (für EINREICHUNG)

VI-1	Priorität einer früheren nationalen Anmeldung beansprucht		
VI-1-1	Anmeldedatum	04. August 2003 (04.08.2003)	
VI-1-2	Nummer	10335620.7(-16) 	
VI-1-3	Staat	DE	
VII-1	Gewählte Internationale Recherchenbehörde	Europäisches Patentamt (EPA) (ISA/EP)	
VIII	Erklärungen	Anzahl der Erklärungen	
VIII-1	Erklärung hinsichtlich der Identität des Erfinders	-	
VIII-2	Erklärung hinsichtlich der Berechtigung des Anmelders, zum Zeitpunkt des internationalen Anmeldedatums, ein Patent zu beantragen und zu erhalten	-	
VIII-3	Erklärung hinsichtlich der Berechtigung des Anmelders, zum Zeitpunkt des internationalen Anmeldedatums, die Priorität einer früheren Anmeldung zu beanspruchen	-	
VIII-4	Erfindererklärung (nur im Hinblick auf die Bestimmung der Vereinigten Staaten von Amerika)	-	
VIII-5	Erklärung hinsichtlich unschädlicher Offenbarungen oder Ausnahmen von der Neuheitsschädlichkeit	-	
IX	Kontrollliste	Anzahl der Blätter	Elektronische Datei(en) beigelegt
IX-1	Antrag (inklusive Erklärungsblätter)	4	✓
IX-2	Beschreibung	24	-
IX-3	Ansprüche	7	-
IX-4	Zusammenfassung	1	✓
IX-5	Zeichnung(en)	0	-
IX-7	INSGESAMT	36	
	Beigelegte Unterlagen	Unterlage(n) in Papierform beigelegt	Elektronische Datei(en) beigelegt
IX-8	Blatt für die Gebührenberechnung	✓	-
IX-17	PCT-SAFE Datenträger	-	✓
IX-19	Nr. der Abb. der Zeichn., die mit der Zusammenf. veröffentlicht werden soll		
IX-20	Sprache der int. Anmeldung	Deutsch	
X-1	Unterschrift des Anmelders, des Anwalts oder des Gemeinsamen Vertreters		
X-1-1	Name (FAMILIENNAME, Vorname)	FITZNER, Uwe	
X-1-2	Name der unterzeichnenden Person		
X-1-3	Eigenschaft		

AA Roll

PAT 01148PCT

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PCT-ANTRAG

Original (für EINREICHUNG)

VOM ANMELDEAMT AUSZUFÜLLEN

10-1	Datum des tatsächlichen Eingangs dieser internationalen Anmeldung	(13. 07. 04)	13 JUL 2004
10-2	Zeichnung(en):		
10-2-1	Eingegangen		
10-2-2	Nicht eingegangen		
10-3	Geändertes Eingangsdatum aufgrund nachträglich, jedoch fristgerecht eingeg. Unterlage(n) oder Zeichnung(en) zur Vervollständigung dieser int. Anmeldung		
10-4	Datum des fristgerechten Eingangs der Berichtigung nach PCT Artikel 11(2)		
10-5	Internationale Recherchenbehörde	ISA/EP	
10-6	Übermittlung des Recherchenexemplars bis zur Zahlung der Recherchengebühr aufgeschoben		

VOM INTERNATIONALEN BÜRO AUSZUFÜLLEN

11-1	Datum des Eingangs des Aktenexemplars beim Internationalen Büro	
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BUNDESREPUBLIK DEUTSCHLAND



Prioritätsbescheinigung über die Einreichung einer Patentanmeldung

Aktenzeichen: 103 35 620.7

Anmeldetag: 4. August 2003

Anmelder/Inhaber: BASF Coatings AG, 48165 Münster/DE

Bezeichnung: Verfahren zur Herstellung von Kunststoffformteilen
mit funktionalen Oberflächen

IPC: B 29 C 69/00

Die angehefteten Stücke sind eine richtige und genaue Wiedergabe der ursprünglichen Unterlagen dieser Patentanmeldung.

München, den 22. Juli 2004
Deutsches Patent- und Markenamt
Der Präsident
Im Auftrag

Letang